

CLAIMS

1. A recording apparatus, comprising:

compression process means for compressing an
input digital signal corresponding to a predetermined
compression process and segmenting the compressed
digital signal into blocks;

fixed value generating means for generating a
predetermined fixed value;

adding means for adding the fixed value
generated by said fixed value generating means at a
predetermined timing to the blocks of the digital
signal compressed by said compression process means;

encrypting means for encrypting the fixed
value and the compressed digital signal added by said
adding means; and

recording means for recording the fixed value
and the compressed digital signal encrypted by said
encrypting means to a record medium.

2. The recording apparatus as set forth in claim
1,

wherein the record medium is
attachable/detachable to/from the recording apparatus.

3. The recording apparatus as set forth in claim
1,

wherein the record medium is a non-volatile
memory.

4. The recording apparatus as set forth in claim

1,

wherein the fixed value generated by said fixed value generating means is varied corresponding to a compression rate.

5 5. The recording apparatus as set forth in claim 1,

wherein the digital signal is a digital audio signal, and

10 wherein the fixed value generated by said fixed value generating means is varied corresponding to a channel.

6. The recording apparatus as set forth in claim 1,

15 wherein when a plurality of blocks of the compressed digital signal compose the minimum encrypting unit, the fixed value is added to the first block of the plurality of blocks by said adding means.

7. The recording apparatus as set forth in claim 1,

20 wherein the fixed value is added to all blocks of the plurality of blocks by said adding means.

8. A recording method, comprising the steps of:
compressing an input digital signal
corresponding to a predetermined compression process
25 and segmenting the compressed digital signal into blocks;

generating a predetermined fixed value;

adding the generated fixed value at a
predetermined timing to the blocks of the compressed
digital signal;

encrypting the fixed value and the compressed
digital signal that have been added; and

recording the fixed value and the compressed
digital signal that have been encrypted to a record
medium.

9. The recording method as set forth in claim 8,
wherein the record medium is
attachable/detachable to/from a recording apparatus.

10. The recording method as set forth in claim 8,
wherein the record medium is a non-volatile
memory.

11. The recording method as set forth in claim 8,
wherein the fixed value is varied
corresponding to a compression rate.

12. The recording method as set forth in claim 8,
wherein the digital signal is a digital audio
signal, and

wherein the fixed value is varied
corresponding to a channel.

13. The recording method as set forth in claim 8,
wherein when a plurality of blocks of the
compressed digital signal compose the minimum
encrypting unit, the fixed value is added to the first
block of the plurality of blocks.

14. The recording method as set forth in claim 8,
wherein the fixed value is added to all
blocks of the plurality of blocks.

15. A reproducing apparatus for reproducing data
of which a digital signal of which a fixed value is
added at a predetermined timing to blocks of main data
is compressed and encrypted from a record medium,
comprising:

decrypting means for decrypting the
compressed and encrypted digital signal;

separating means for separating the fixed
value and the compressed data from the digital signal
that are decrypted by said decrypting means;

decompressing means for decompressing the
compressed main data separated by said separating
means;

memory means for pre-storing a fixed value;

comparing means for comparing the fixed value
separated by said separating means with the fixed value
stored in said memory means; and

controlling means for permitting and
prohibiting the decompressing process of said
decompressing means for the main data decompressed by
said decompressing means corresponding to the compared
result of said comparing means.

16. The reproducing apparatus as set forth in
claim 15,

wherein the record medium is attachable/detachable to/from the reproducing apparatus.

17. The reproducing apparatus as set forth in claim 15,

wherein the record medium is a non-volatile memory.

18. The reproducing apparatus as set forth in claim 15,

wherein said memory means stores a plurality of fixed values that vary corresponding to channels,

wherein the plurality of fixed values stored in said memory means are successively compared with the fixed value separated from said separating means so as to identify a channel.

19. The reproducing apparatus as set forth in claim 15,

wherein said memory means stores a plurality of fixed values that vary corresponding to compression rates,

wherein the plurality of fixed values stored in said memory means are successively compared with the fixed value separated from said separating means so as to identify a compression rate.

20. The reproducing apparatus as set forth in claim 15,

wherein the decompressing process is

permitted for the compressed main data corresponding to the compared result in such a manner that a mute process is performed for the decompressed main data.

21. A reproducing method for reproducing data of which a digital signal of which a fixed value is added at a predetermined timing to blocks of main data is compressed and encrypted from a record medium, comprising the steps of:

decrypting the compressed and encrypted digital signal;

separating the fixed value and the compressed data from the digital signal that are decrypted;

decompressing the compressed main data that is separated;

comparing the separated fixed value with the fixed value that is stored; and

permitting and prohibiting the decompressing process of comparing step for the main data that is decompressed corresponding to the compared result of comparing step.

22. The reproducing method as set forth in claim 21,

wherein the record medium is attachable/detachable to/from a reproducing apparatus.

23. The reproducing method as set forth in claim 21,

wherein the record medium is a non-volatile

memory.

24. The reproducing method as set forth in claim
21,

wherein a plurality of fixed values that vary
5 corresponding to channels are pre-stored, and

wherein the plurality of fixed values that
are pre-stored are successively compared with the fixed
value separated at separating step so as to identify a
channel.

10 25. The reproducing method as set forth in claim
21,

wherein a plurality of fixed values that vary
corresponding to compression rates are pre-stored, and

15 wherein the plurality of fixed values that
are pre-stored are successively compared with the fixed
value separated at separating step so as to identify a
compression rate.

26. The reproducing method as set forth in claim
21,

20 wherein the decompressing process is
permitted for the compressed main data corresponding to
the compared result in such a manner that a mute
process is performed for the decompressed main data.